

CONTACT INFO:

Eric De Vito

Brickfield, Burchette, Ritts & Stone, PC
Suite 800 - West Tower
1025 Thomas Jefferson Street, NW
Washington, DC 20007

Measure Information Template

*California Building Energy Efficiency Standards
Revisions for July 2003 Adoption*

Cardinal Glass Industries

Proposed Measure: 25% Glazing Area Alternative Compliance Package

November 5, 2001

Description

We recommend that additional prescriptive compliance packages be developed to allow higher glazing areas than the current limits. We suggest adopting an alternative compliance package, in addition to Package D, for homes designed with glazing area up to 25% of floor area.

Benefits

Developing additional packages with higher glazing areas will provide additional simplified compliance options for builders who design and build with higher than normal glazing areas, but prefer the alternative compliance package as a method to comply with the Standards. Our proposed measure would require the Staff to approve new prescriptive criteria. We expect this criteria to be consistent with the existing Package D criteria, yet with increased stringency to offset higher allowed glazing areas. Thus, overall energy use should not be affected.

Environmental Impact

No adverse environmental impact expected.

Type of Change

Compliance Option: this proposed measure is intended as a new prescriptive compliance option to be added to section 151 of the Standards [incorporated in Tables 1-Z1 through 1-Z16].

The Standards, ACM, manuals, compliance forms, etc. will need to be revised to incorporate the final prescriptive criteria developed for this compliance option.

Measure Availability and Cost

No additional costs or availability limitations are anticipated at this time.

Useful Life, Persistence and Maintenance

This proposed measure would have no negative impact on the life, frequency of replacement, or maintenance procedures of the current Standards. This measure is designed to increase compliance with the Standards by providing additional compliance options.

Performance Verification

No additional performance verification or commissioning measures beyond what currently exists in the Standards is necessary to implement this measure.

Cost Effectiveness

Because this is a compliance option, cost-effectiveness should not be affected by this proposed measure.

Analysis Tools

Energy savings and peak electricity demand reductions attributable to this proposed measure can be estimated using various building simulation tools, such as MICROPAS and various DOE-2 based simulation tools.

Relationship to Other Measures

This measure should be considered in conjunction with our proposed recommendation that existing prescriptive values be reviewed to ensure they are cost-effective.

Bibliography and Other Research

The IECC contains prescriptive packages allowing various glazing areas up to 25% of exterior wall area for one- and two-family dwellings (up to 30% for townhomes).